

Installing PCI Geomatics Software

Version 10.1

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Introduction

System Requirements

PCI Geomatics software is distributed on ISO9660-format CDs and requires a valid license and hardware key (a Windows-only dongle); otherwise, it will run in demo mode with limited functionality.

Software package contents

The following items should be included in your software package:

- 1 Geomatica Installation CD (operating-system dependent)
- 2 OrthoEngine Demo Data CDs
- 3 Hyperspectral Demo Data CDs
- User Manuals
- Interlock hardware device (for Windows only): SentinelPro, Sentinel SuperPro, USB SuperPro
- Marketing literature

Supported Platforms

- Microsoft® Windows® 2000, 2000 Server, 2003 Server, XP

System Requirements for Windows

- Pentium III 600 MHz processor or later
- CD drive
- 1 GB of free hard disk space
- 512 MB of RAM or more
- 24-bit Windows graphics card or accelerator, running at 1280 x 1024 pixels. The minimum is a 16-bit graphics card or accelerator, running at 1024 x 768.
- OpenGL

Dual Processors

PCI Geomatics software is not specifically designed to take advantage of a dual-processor configuration. If you are running a single Geomatica process, you will not see any speed advantage with a dual-processor configuration.

Contacting PCI Geomatics

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Installing PCI Geomatics Software

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Installing Geomatica in Standalone mode

Installing Geomatica

In Standalone mode Geomatica is installed on your computer. The software will run in licensed mode once you have imported the license file that you received from PCI Geomatics into the License Utility. Without the license file, the software will run with certain restrictions.

Geomatica 10.1 can operate independently of Geomatica Version 10.0. If you are using a floating license and you decide to uninstall a previous version of Geomatica, remove the floating license server prior to uninstalling the software.

To install Geomatica:

1. Attach the interlock (dongle) provided with your software to your LPT1 or your USB port, depending on the interlock you have requested.

If this is the first time that you install a USB dongle, your operating system may attempt to install default drivers. Do not install those drivers. The recommended drivers are included in the Geomatica installation.

2. Insert the installation CD into the CD-ROM drive of your computer.

The installation is performed with the InstallShield Wizard®. If it does not open automatically when you insert the installation CD into your computer, double-click install.exe on the Installation CD. Follow the instructions in the wizard.

3. On the **Installation Options** screen of the wizard, click **Geomatica** and click **Next**. Continue following the instructions in the wizard.
4. On the **Installation Type** screen of the wizard, click **Standalone** and click **Next**. Continue following the instructions in the wizard.
5. Once the software is installed, import the license, see [Licensing Geomatica](#) on page 5 .

Licensing Geomatica

The License Utility allows you to import a license file that provides you with full access to your Geomatica applications. The license file applies only to standalone installations of Geomatica. To obtain the license file, you must send a request to PCI Geomatics using one of the following methods:

- Complete the form by clicking Web License Request at http://www.pcigeomatics.com/services/support_center/keyrequest.php.
- Send an e-mail to license@pcigeomatics.com.

If you do not have access to the Internet or an e-mail program, you can contact PCI Geomatics Customer Support for the license file.

Your request for the license file must contain the following information for each standalone installation of Geomatica:

1. Your customer number
2. Your name
3. Company name
4. E-mail address at which you want to receive the license file
5. Dongle ID (CPU ID) of the computer on which you installed Geomatica
6. Fingerprint of the computer on which you installed Geomatica
7. Platform of the computer on which you installed Geomatica
8. Geomatica version

The information for the dongle ID, fingerprint, platform, and version is displayed on the License Utility window, under: Hardware configuration.

NOTE: For multiple, standalone installations of Geomatica, ensure that you provide the dongle ID and fingerprint of each computer on which Geomatica is installed.


Saving and importing the license file

Once you receive the license file from PCI Geomatics, you must:

- save the file in a preferred location of the system that contains the Geomatica installation, and then
- import the license file.

Importing the license file

Once you receive and save the requested license file, you must import it into the License Utility. Importing the license file, gains you full access to Geomatica's applications.

1. Do one of the following:
 - Click **Start > Programs > PCI Geomatics > Geomatica V10.1 > License Utility**.
 - From the Geomatica Welcome window, click **Import License**.
 - If Geomatica is running, click  the **License Utility** icon on the Geomatica Toolbar.

2. In the License Utility window, click **Import**.

The File Selector window appears.

3. Navigate to the location where you saved the license file.
4. Select the file and click **Open**.

The License Utility window appears and displays the license file details in the table below the Import button. The number of entries match the number of licenses requested.

NOTE: At least one dongle ID and fingerprint set in the table must match the dongle ID and fingerprint set displayed under Hardware Configuration on the active License Utility.

5. Click **Close**.

Troubleshooting the Fingerprint file

If the Fingerprint file is empty or incomplete, then the system was unable to detect your hardware key (a Windows-only dongle) or the drivers. Verify that the hardware key is properly attached to the computer and regenerate the Fingerprint file. If the file is still incomplete, reinstall the drivers and regenerate the file.

To regenerate the Fingerprint file:

1. Browse to `c:\Program Files\PCI Geomatics\SentinelUtilities\Licensing\License_V101`.
2. Double-click `echoid32.exe`.

If the file regenerates successfully, the fingerprint appears in the DOS window:

```
PCI Fingerprint Generator
Dongle ID:      123456
Fingerprint:   123-ABCDEF
```

To install the drivers:

1. Browse to one of the following:
 - `c:\windows\pcigeomatics\sys\nt\lic\superpro\V732\sentinel732.exe`
 - `c:\winnt\pcigeomatics\sys\nt\lic\superpro\V732\sentinel732.exe`
2. Double-click `sentinel732.exe` and follow the wizard.

Installing the License Server and Clients

Installing the license server

The license server provides the licenses for the Full and Thin Clients, which are installed on other computers on the network.

1. Attach the interlock (dongle) provided with your software to your LPT1 or your USB port, depending on the interlock you have requested.

If this is the first time that you install a USB dongle, your operating system may attempt to install default drivers. Do not install those drivers. The recommended drivers are included in the Geomatica installation.

2. Insert the installation CD into the CD-ROM drive of your computer.

The installation is performed with the InstallShield Wizard®. If it does not open automatically when you insert the installation CD into your computer, double-click install.exe on the Installation CD. Follow the instructions in the wizard.

3. On the **Installation Options** screen of the wizard, click **License Server** and click **Next**.
4. The installation includes wizards for installing the Sentinel Protection Installer and the Sentinel RMS License Manager. Continue following the instructions in the wizards.
If a warning about hardware not passing Windows Logo testing appears, click Continue Anyway.
5. Obtain your licenses from PCI Geomatics, see [Obtaining a license file for the license server](#) on page 7
6. Load your licenses into the license server, see [Loading the licenses into the server](#) on page 8 .

Obtaining a license file for the license server

Geomatica's license server now uses the Sentinel RMS Licensing Manager. A fingerprint file is required to license the server. This file is a text file that can be viewed with any text editor, and it contains the fingerprint of your computer and the interlock (dongle) ID that was issued to you. During the installation of the license server, the fingerprint file is automatically generated. The fingerprint file can be found at:

Start > All Programs > PCI Geomatics > Server Administration > Info > Fingerprint file

To obtain the license file, you must send a request to PCI Geomatics using one of the following methods:

- Complete the form by clicking Web License Request at http://www.pcigeomatics.com/services/support_center/keyrequest.php.
- Send an e-mail to license@pcigeomatics.com.

If you do not have access to the Internet or an e-mail program, you can contact PCI Geomatics Customer Support for the license file.

Your request for the license file must contain the following information:

1. Your customer number
2. Your name
3. Company name
4. E-mail address at which you want to receive the license file
5. Dongle ID (CPU ID) of the computer on which you installed the license server
6. Fingerprint of the computer on which you installed the license server
7. Platform of the computer on which you installed the license server
8. Geomatica version

If you have difficulty with the Fingerprint file, see [Troubleshooting the Fingerprint file](#) on page 6

Loading the licenses into the server

1. When you receive your license file, save a copy of it in the same folder as the lservnt.exe file, which can be found in C:\Program Files\Common Files\SafeNet Sentinel\Sentinel RMS License Manager\WinNT.
2. Rename the license file to License.PCI.
For example, if you receive license_5555555_ALL_20070423.PCI, rename it to License.PCI.
3. Open a command prompt and navigate to C:\Program Files\Common Files\SafeNet Sentinel\Sentinel RMS License Manager\WinNT.
4. Run: `lslic -F License.PCI`

The environment variables should be set automatically. For information on the environment variables, see [About the license server environment variables](#) on page 8 .

Managing the license server

The Sentinel RMS License Manager can be found at:

C:\Program Files\Common Files\SafeNet Sentinel\Sentinel RMS License Manager\WinNT\lservnt.exe

Managing the licenses on the server

1. Open a command prompt and navigate to C:\Program Files\Common Files\SafeNet Sentinel\Sentinel RMS License Manager\WinNT.
2. Type one of the following:
 - To load licenses: `lslic -F License.PCI`
 - To remove licenses: `lslic -removeall`

Managing the server

1. Open a command prompt and navigate to C:\Program Files\Common Files\SafeNet Sentinel\Sentinel RMS License Manager\WinNT.
2. Type one of the following:
 - To install the server: `lservnt.exe -X install`
 - To start the server: `lservnt.exe -X start`
 - To stop the server: `lservnt.exe -X stop`
 - To open the Help: `lservnt.exe -H|-h`
 - To obtain the server status: `lservnt.exe -X status`
 - To remove the server: `lservnt.exe -X remove`

About the license server environment variables

The environment variable are set automatically during the installation. You can access the Windows environment variables through the registry editor (regedit). In the Registry Editor, navigate to the HKEY_LOCAL_MACHINE\SOFTWARE\PCIGroup\ folder and select the PCIV101 folder.

INSTALLTYPE

This environment variable is a Windows-only variable that indicates which setup type was chosen during the installation. This variable must not be changed.

PCI_EASIHLP

This environment variable is a Windows-only variable that indicates which type of help system is available for EASI. This is defaulted to HTML and must not be changed.

PCIGROUP

This environment variable is intended for developers that want to access the procedures and executables they have developed for Geomatica without copying them to the installed software tree. Executables and

ancillary files, located in the pro, hlp, exe, etc, and models folders, are first searched for in the PCI directory tree pointed to by the PCIGroup environment variable, then in the PCIHOME_V101 tree, and finally in the PCI directory tree pointed to by the following PCIMASTER variable.

For Windows:

```
PCIGROUP c:\program files\PCI Geomatics\geomatica_v101
```

PCIHOME

Two types of PCIHOME environment variables can be used with specific versions of Geomatica.

- **PCIHOME_VXXX:** For Geomatica 10.1 to function properly, this variable must be set. The PCIHOME_V101 environment variable must point to the root of the directory tree where Geomatica 10.1 is installed. This setting allows you to maintain multiple versions of PCI Geomatics software on a single system. This variable can be set as follows.

For Windows:

```
PCIHOME_V101 C:\program files\PCI Geomatics\geomatica_v101
```

- **PCIHOME:** This is the default home variable for Geomatica. This variable can be used with any version of Geomatica. If this variable is used, then it must be set to the root of the directory tree where Geomatica 10.1 is installed. The variable can be set as follows.

For Windows:

```
PCIHOME c:\program files\PCI Geomatics\geomatica_v101
```

PCILICENSEFILE

Once the PCIHOME_V101 environment variable is set, an internal explicit link is set to the \$PCIHOME_V101/exe/License.PCI file. If the location of the License.PCI file is different from what is explicitly linked, the PCILICENSEFILE environment variable should be set.

The environment variable PCILICENSEFILE must exist so that the software can point directly to the valid License.PCI file (not to the directory containing the file, but to the file itself).

In some cases, such as when sharing a single license file across several systems in a network or for those users who receive a supplementary license file to use with a new package, it may be necessary to set up additional environment variables. Its use, in most cases, is optional. Using PCILICENSEFILE is useful when you want to have one copy of the license data file used for all the systems for which you are licensed. This makes it possible for maintenance items, such as the addition of new keys, to be performed only once. This variable can be set as follows.

For Windows:

```
PCILICENSEFILE c:\Program Files\PCI Geomatics\Geomatica_v101\exe\License.PCI
```

PCILICENSESERVER

If this variable does not exist, then it is assumed to be a standalone installation, where it will not search the local network for a license. If this variable is set, but you want to disable it, set the variable to 'no-net'.

For Windows:

```
PCILICENSESERVER computer.domain.com  
PCILICENSESERVER 100.100.100.255
```

PCIUSER - USERHOME

To maintain preferences from one session to another for each individual user, the USERHOME variable

should be set to a directory where the user has write permissions. This variable can be set as follows.

For Windows:

```
PCIUSER C:\program Files\PCI Geomatics\geomatica_v101\user
```

Installing Geomatica as a Full Client of the license server

When you install as a Full Client of the Floating License Server, Geomatica is installed on your computer and is licensed from the license server installed on another computer on the network. To complete the installation, you need to know the IP address or UNC name of the computer where the license server is installed.

1. Attach the interlock (dongle) provided with your software to your LPT1 or your USB port, depending on the interlock you have requested.

If this is the first time that you install a USB dongle, your operating system may attempt to install default drivers. Do not install those drivers. The recommended drivers are included in the Geomatica installation.
2. Insert the installation CD into the CD-ROM drive of your computer.

The installation is performed with the InstallShield Wizard®. If it does not open automatically when you insert the installation CD into your computer, double-click install.exe on the Installation CD. Follow the instructions in the wizard.
3. On the **Installation Options** screen of the wizard, click **Geomatica** and click **Next**. Continue following the instructions in the wizard.
4. When you get to the **Installation Type** screen of the wizard, click **Full Client of a Floating License Server** and click **Next**. Continue following the instructions in the wizard.

Installing Geomatica as a Thin Client of the license server

When you install as a Thin Client of a Floating License Server, the Geomatica software, the license server, and the Thin Client are installed on separate computers on a network. The Thin Client is software that is installed on your computer that provides access to Geomatica and the license server. The license server is an application that manages the floating licenses that you have purchased.

Installing Geomatica for use with the Thin Client

This installation type is intended for use with the Thin Client of a Floating License Server. The Geomatica software will be accessed by Thin Clients installed elsewhere on the network and the Thin Clients will obtain their licenses from the license server.

1. Insert the installation CD into the CD-ROM drive of your computer.

The installation is performed with the InstallShield Wizard®. If it does not open automatically when you insert the installation CD into your computer, double-click install.exe on the Installation CD. Follow the instructions in the wizard.
2. On the **Installation Options** screen of the wizard, click **Geomatica** and click **Next**. Continue following the instructions in the wizard.
3. When you get to the **Installation Type** screen of the wizard, click **Software Only** and click **Next**. Continue following the instructions in the wizard.
4. Ensure that the folder where Geomatica is installed is shared so the Thin Clients will have access to it.

Mapping the Geomatica installation to a network drive

Before the Thin Client can access the Geomatica installation, you have to map it to a network drive on

your computer.

1. Right-click the My Computer icon on your desktop and click Map Network Drive.
2. Follow the instructions in the Map Network Drive wizard.

Installing the Thin Client

The Thin Client is software that is installed on your computer that provides access to Geomatica and the license server which are installed on other computers on the network. To complete the installation, you need the path of the network drive mapped to the Geomatica installation that you will use and the IP address or UNC name of the computer where the license server is installed.

1. Insert the installation CD into the CD-ROM drive of your computer.

The installation is performed with the InstallShield Wizard®. If it does not open automatically when you insert the installation CD into your computer, double-click install.exe on the Installation CD. Follow the instructions in the wizard.

2. On the **Installation Options** screen of the wizard, click **Geomatica** and click **Next**. Continue following the instructions in the wizard.
3. When you get to the **Installation Type** screen of the wizard, click **Thin Client of a Floating License Server** and click **Next**. Continue following the instructions in the wizard.

Uninstalling Geomatica software

To properly remove Geomatica, you must uninstall the software.

Uninstalling the Standalone Geomatica installation

InstallShield does not remove any new files from the Geomatica folders while uninstalling programs; however, you should back up:

- any scripts you have stored in Geomatica_v101/pro
- any customer programs you have stored in Geomatica_v101/exe
- any files you have modified in Geomatica_v101/etc (user-defined projections added to userpro.txt)
- any data you have stored in Geomatica_v101/demo or Geomatica_v101/user

You can maintain Geomatica 9.x and 10.x on the same computer as Geomatica 10.1.

If you are uninstalling Geomatica and want to reinstall the same version, back up the License.PCI file located in Geomatica_v101\exe. When you remove the software, you may be asked if you want to delete several items that may still be in use, including various programs within the PCI Geomatics common files. If a file that is being removed is in use or is shared, a message will appear.

To uninstall Geomatica:

1. Do one of the following:
 - Insert the installation CD.
 - Click **Start > All Programs > PCI Geomatics > Geomatica V10.1 > Uninstall > Geomatica V10.1**.
 - Open the Control Panel, double-click **Add or Remove Programs**, click Geomatica 10.1, and click **Remove**.
2. In the InstallShield wizard, click **Remove**. This completely removes the present installation of Geomatica. Each release of Geomatica has a unique identifier; therefore, it will not uninstall any other version of Geomatica other than what is selected.

Uninstalling the license server

To uninstall the server and drivers:

1. Click **Start > All Programs > PCI Geomatics > Server Administration > Uninstall > License Server**.
2. In the InstallShield wizard, click **Remove** and follow the instructions in the wizard.

To remove the license server only:

1. Open a command prompt and navigate to C:\Program Files\Common Files\SafeNet\Sentinel\Sentinel RMS License Manager\WinNT.
2. Type `lservnt.exe -X stop`
3. Type `lservnt.exe -X remove`

Removing Geomatica manually (not recommended)

Sometimes errors can occur during the installation or removal of Geomatica. For example, if the system is not restarted when requested and a second installation is performed, the uninstall links in the registry can be corrupted. This causes the system to perform the uninstall procedure each time the setup program runs.

To remove Geomatica manually:

1. Delete the Geomatica folder from your hard drive.
2. Remove the Sentinel driver and services by running one of the following executables:

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- c:\windows\pcigeomatics\sys\nt\lic\superpro\V732\sentinel732.exe
 - c:\winnt\pcigeomatics\sys\nt\lic\superpro\V732\sentinel732.exe
3. Delete the PCIV101 folder from the HKEY_LOCAL_MACHINE\SOFTWARE\PCIGroup folder in the Windows registry.
 4. Delete the alphanumeric folder that has the environment variable “display name” pointing to the version of Geomatica that is installed from the HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall folder in the Windows registry.